



**UNIVERSAL INPUT AC-DC MEDICAL & ITE APPLICATION  
EXTERNAL DESKTOP SWITCHING ADAPTER 50 WATTS  
GREEN POWER SINGLE OUTPUT HEMG50 SERIES**



**FEATURES:**

- ACCOMMODATE UNIVERSAL AC INPUT
- MEET MEDICAL STANDARDS IEC60601-1 & ITE STANDARDS IEC60950-1
- EMI MEET EN 55011 & EN55022 / FCC CLASS B
- INTERNATIONAL EFFICIENCY LEVEL V & CEC COMPLIANT
- CE MARKING COMPLIANCE

**SPECIFICATION**

**INPUT SPECIFICATION**

**Input Voltage:** Typ. 90-264Vac.  
**Input Connector:** 3 pole AC inlet IEC320-C14(DT7) / 2 pole AC inlet IEC320-C8(DT8).  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** 14.6Arms (76Apk) at 230Vac.  
**Input Current:** Typical 0.9A at 115Vac/ 0.6A at 230Vac.  
**Dielectric Withstand:** Meet IEC60601-1 & IEC60950-1.  
**EMI:** Meet EN55011 & EN55022 / FCC Class B.  
**Hold-up Time:** Typical 19mS at 115Vac. Typical 81mS at 230Vac.  
**Over Temp. Protection (OTP):** Optional.  
**Earth Leakage Current (Class I) :** Less than 0.3 mA.  
**Touch Leakage Current (Class I & II):** Less than 0.1mA.  
**No Load Power:** Less than 0.3W at 230Vac.

**OUTPUT SPECIFICATION**

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** Typical 50Watts.  
**Output Connector & Cord:** Optional.  
**Line Regulation:** Typical 0.1%.  
**Load Regulation:** Typical  $\pm 3\%$ .  
**Noise & Ripple:** 2.0% peak to peak.  
**OVP:** Built-in by latch circuit.  
**Adjustability:** Factory set.  
**Over Current Protection (OCP):**  
 Fully protected against output overload and short circuit.  
 The PSU will shut down after OCP is activated.  
 Consult the factory for OCP setting.

**GENERAL SPECIFICATION**

**Efficiency:** Typ. 77-90%. (various with the output voltage)  
**Switching Frequency:** 65KHz.  
**Circuit Topology:** Fixed Frequency Flyback circuit.  
**Transient Response:** Output voltage returns in less than 1mS following a 25% load change.  
**Safety Standard:** Meet Medical IEC60601-1 & ITE IEC60950-1, Class I for DT7(C14), Class II for DT8(C8).  
**Operating Temperature:** -25°C to +40°C.  
**Storage Temperature:** -40°C to +85°C.  
**Cooling:** Free air convection.  
**Construction:** Impact resistant thermo-plastic enclosure case.  
**Power Density:** 4Watts. / Cubic inch.  
**Desktop Format.**

NOTE: (1) All measurements are at nominal input, full load, and +25°C unless otherwise specified.  
 (2) Load regulation is measured at 115Vac or 230Vac in percentage to indicate the change in output voltage as the load varied from half load to full load ( $\pm\%$ ).  
 (3) The exact obtainable load regulation depends upon the output cord selected and load current.  
 (4) HEMG50 can meet International Efficiency Level V and CEC except 3.3V & 5V output.  
 (5) Due to requests in market and advances in technology, specifications subject to change without notice.

## OUTPUT VOLTAGE / CURRENT RATINGS CHART

### SINGLE OUTPUT

MODEL NO.	AC INLET	O/P VOLTAGE	O/P CURRENT
HEMG50-S033700-7	IEC320-C14(DT7)	3.3Vdc	7.00A
HEMG50-S033700-8	IEC320-C8(DT8)	3.3Vdc	7.00A
HEMG50-S050700-7	IEC320-C14(DT7)	5.0Vdc	7.00A
HEMG50-S050700-8	IEC320-C8(DT8)	5.0Vdc	7.00A
HEMG50-S090500-7	IEC320-C14(DT7)	9.0Vdc	5.00A
HEMG50-S090500-8	IEC320-C8(DT8)	9.0Vdc	5.00A
HEMG50-S120420-7	IEC320-C14(DT7)	12.0Vdc	4.20A
HEMG50-S120420-8	IEC320-C8(DT8)	12.0Vdc	4.20A
HEMG50-S150336-7	IEC320-C14(DT7)	15.0Vdc	3.36A
HEMG50-S150336-8	IEC320-C8(DT8)	15.0Vdc	3.36A
HEMG50-S240215-7	IEC320-C14(DT7)	24.0Vdc	2.15A
HEMG50-S240215-8	IEC320-C8(DT8)	24.0Vdc	2.15A
HEMG50-S480110-7	IEC320-C14(DT7)	48.0Vdc	1.10A
HEMG50-S480110-8	IEC320-C8(DT8)	48.0Vdc	1.10A

Remark: Other output voltages are available, please contact sales for details.

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 246.5g(8.70Oz)**

